PRELIMINARY SITE ASSESSMENT

BAYONNE BARREL AND DRUM COMPANY

NEWARK, NEW JERSEY

AUGUST 1984

TDD #2-8407-25

Prepared for:
Dave Rogers
Response and Prevention Branch
Office of Emergency and Remedial Response
U.S. EPA, Region II
Edison, New Jersey 08837

By:
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Region II, Technical Assistance Team
Weston/SPER Division
Edison, New Jersey 08837

PRELIMINARY SITE ASSESSMENT

BAYONNE BARREL AND DRUM COMPANY

NEWARK, NEW JERSEY

BACKGROUND:

Bayonne Barrel and Drum Company was a reconditioner of drums located at 154 Raymond Boulevard in Newark, New Jersey. The property is bounded by: Routes 1 and 9 on the west and north; the New Jersey Turnpike on the east; and the Newark Drive-In on the south (see Figure #1).

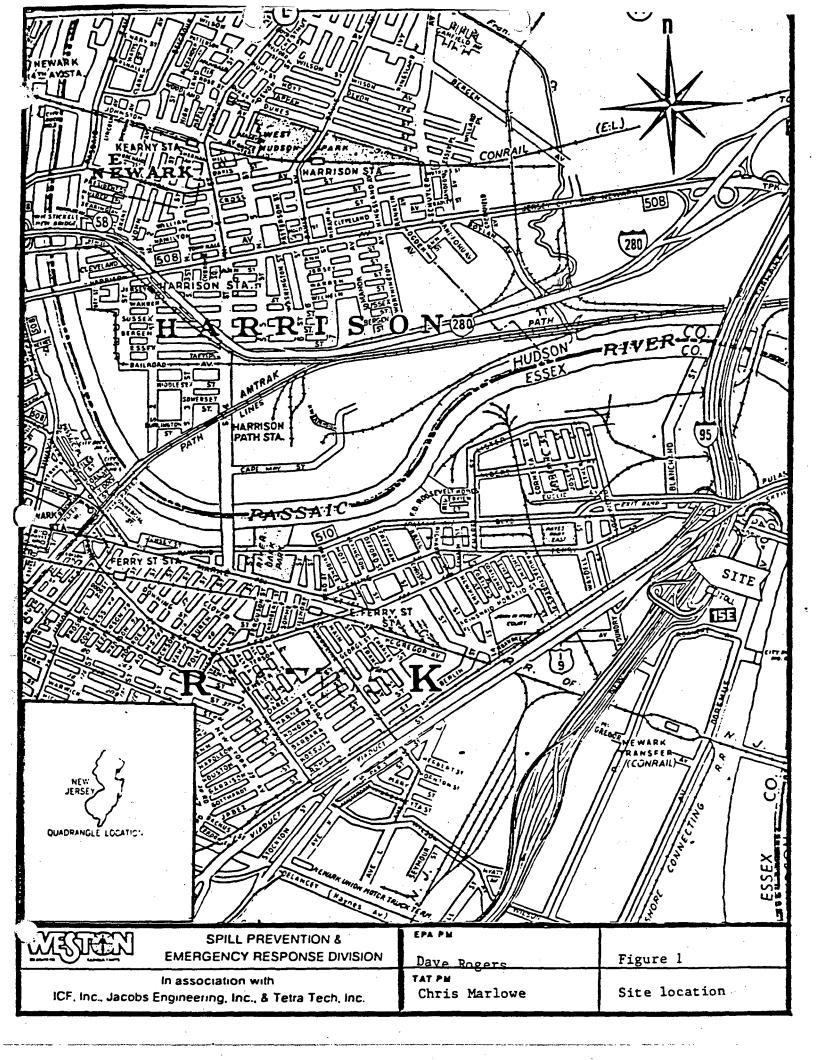
Drum cleaning operations formerly involved both closed head and open head drums. In closed head cleaning, chains and a caustic solution were used to wash out previous material in the drums. The spent solution drained through an oil/water separator into a 5,000 gallon underground holding/settling tank and was then pumped into a 60,000 gallon above ground holding/settling tank. The liquid was decanted to the sewer under a permit to the Passaic Valley Sewage Commission. Open head drums were placed on a conveyor belt and moved through an incinerator which burned residue out of the inside. This residue material was collected in two subsurface holding/settling tanks. Approximately 40,000 lbs. of incinerator ash and sludge were generated monthly.

The company has been the focus of considerable U.S. EPA and New Jersey Department of Environmental Protection (NJDEP) activity related to the management of hazardous wastes generated in its operations.

Bayonne Barrel and Drum Company ceased operations sometime in the Winter of 1983. They have filed for bankruptcy. A skeleton crew remains on site to oversee the sale of equipment and inventory.

OBJECTIVE:

At the request of the U.S. EPA, Region II, Response and Prevention Branch, U.S. EPA representative, Dave Rogers and TAT members, Craig Moylan and Christopher Marlowe visited this site to conduct a preliminary site assessment and evaluate the need for an immediate removal action under 40 CFR 300.65(a) of the National Oil and Hazardous Substances Contingency Plan.



PERSONNEL REFERRED TO IN THIS REPORT:

Name

Affiliation

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Christopher Marlowe

Frederick A. Sickels, III

100

NJDEP Division of Waste Management 120 Route 156 Yardville, NJ 08620 (609) 292-5560

Robert Bienz

Newark City Engineers Office 920 Broad Street Newark, NJ 07102 (201) 733-8820

Tom Downey

NJ Department of Environmental Protection Division of Waste Management Red Lion, NJ (609) 859-2958

Frank Langella

Bayonne Barrel and Drum Co. 154 Raymond Boulevard Newark, NJ 07102 (201) 589-0110

SITUATION:

U.S. EPA representative, Dave Rogers and TAT members, Craig Moylan and Christopher Marlowe arrived at Bayonne Barrel and Drum at 9:00 A.M. They entered at 9:10 A.M. to conduct an opening conference with Frank Langella of Bayonne Barrel and Drum Company.

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They were joined by Fred Sickels of the NJDEP during this conference. During this conference, Mr. Langella stated that Bayonne Barrel and Drum has a reputation for orderly operations. He also stated that he, personally, owns 5-1/3 acres of the 20 acre site (see Figure #2).

Rogers, Moylan, Marlowe and Sickels began their site inspection at 9:40 A.M. They used an Organic Vapor Analyzer (OVA) for air characterization and an MSA Combustible Gas Meter for oxygen/explosive vapor monitoring (see attached air data sheets). No oxygen deficiency or potentially combustible atmospheres were observed. The background reading on the OVA was 2 ppm.

The weather during the inspection was warm and humid $(86^{\circ}F)$ and 60%RH). There was a mild breeze. The ground was moist from rain earlier in the week.

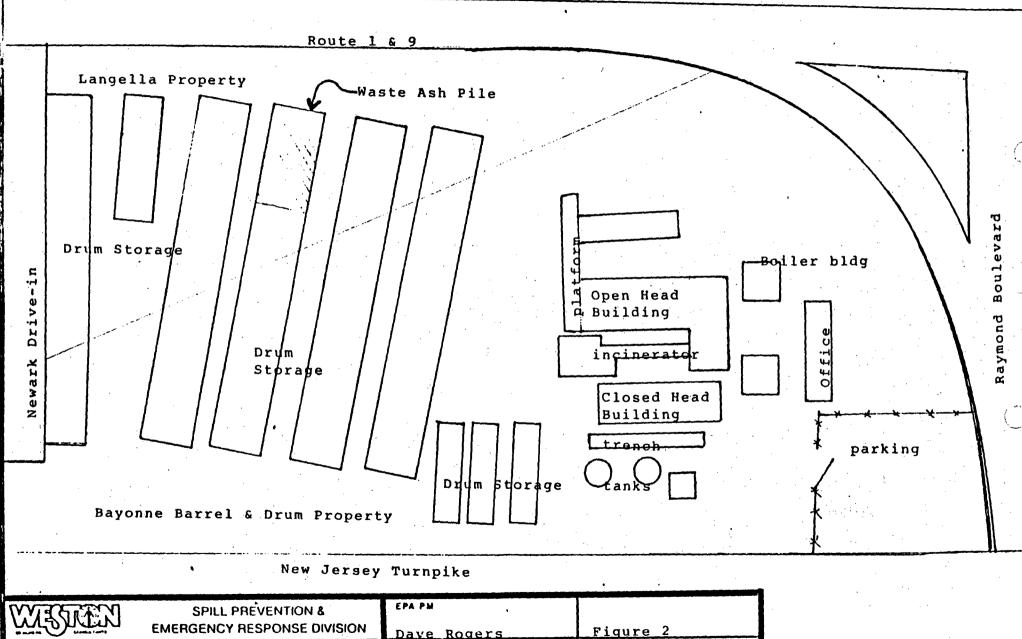
A guard checked the Response team in at the gate. The site is entirely surrounded by a 6-foot high Cyclone[®] fence with 3 strands of barbed wire on the top. The team saw no evidence of vandalism or use of the property by unauthorized personnel. According to Robert Bienz, of the Newark City Engineers Office, the property drains via a storm sewer system into Harrison Creek and thence to the Passaic River.

The team entered the closed head drum cleaning building first. They observed a 4-inch layer of sludge under the drain stations. This sludge and the slicks of oily material on the floor throughout the building yielded no elevated reading on the OVA. A workman was in the process of dismantling the cleaning line while we were present.

The open head drum incinerator is located between the closed head and open head buildings. It consists of a chain-link conveyor and a brick-and-steel furnace housing. A black sludge about 4 inches thick has been deposited under the open conveyor links. The OVA showed no excess over background from this sludge. This sludge is probably the ash residue from incineration. There was a pile of black grit at the north end of the incinerator conveyor. There were smears and slicks of oily material on the ground in the incineration area that yielded no elevated readings on the OVA.

The open head drum building contains a spray line and bake oven. There was some paint sludge in the spray zone which yielded no elevated OVA readings. There is also a rectangular "sump. pit" at the north end of the bake oven conveyor. The OVA registered 90 ppm over this pit, which may be in communication with the soil below the building.





TAT PM

Chris Marlowe

Not to scale

In association with ICF Inc. Jacobs Engineering, Inc., & Tetra Tech, Inc.

BAYONNE BARREL & DRUM CO

There are approximately 35,000 drums stored outdoors on the southern 2/3 of the property. These drums are mostly "empty" and ready to be reconditioned. They are stacked in rows directly on the ground. The names of many companies appear on the drum labels, among them: DuPont; National Starch; Peerless Tube; Lucidol; 3M; and Alpha Metal. OVA levels in ambient air in the drum storage area were negligible. They measured 100 ppm in an open drum marked "Toluene Di-Isocyanate" and 20 ppm over the soil near a leaking drum. An OVA level of 10 ppm was read in the ambient air in the southeast of the site. The team saw shiny new bungs on some old drums of "desmophen". Also, some "empty" 10-gallon drums of "t-butyl peroxide" were stored on site.

There is a pile of waste ash on the west side of the drum area. It is approximately 110 feet long, 50 feet wide, and 4 feet high, which corresponds to about 1,000 tons of material (calculated as 22,000 cubic feet times 62.43 pounds per cubic foot times an arbitrary density of 1.45). The waste is neither covered on top nor lined underneath. The waste appears black and oily. There was a pool of standing water on the pile. Black mud oozed from the side. OVA readings were 10 ppm over this ooze. An area of soil about 4 feet wide by 60 feet long located at the northwest corner of the open head building looked like it had been dug and refilled.

The oil/water separator station was "left as it was (F. A. Langella) on the last day of operation." Some rust and deterioration is apparent. Mr. Langella stated that the tanks are either empty or filled with water or cleaning solution. We did not observe any leaks from the above ground tanks. We could not evaluate leakage from the below ground tanks.

During the exit conference, Dave Rogers asked Frank Langella whether he could cover the waste pile with plastic sheet. Mr. Langella indicated that he has sufficient sheet in his possession and that he can do so.

DISCUSSION:

Bayonne Barrel and Drum Company's operations generated hazardous wastes. The waste ash pile was first described by NJDEP inspector Tom Downey in March of 1981. At that time, it was 40 feet long, 35 feet wide, and 2 feet high. The USEPA Waste and Toxic Substance Branch sampled and analyzed the ash pile and oil/water separator tanks in February, 1984. The results are tabulated in Tables I - V.

The ash contains considerable concentrations of lead, cadmium, and copper. The lead and cadmium yield high results in the Extraction Procedure Toxicity test. Significant amounts of organic chemicals were found in the ash. Soil samples taken near the ash contained 175 mg/kg of tetrachloro and

In addition, Bayonne Barrel and Drum has not applied for a permit to operate a hazardous waste storage facility. The drums are apparently stacked in the order in which they arrived with little or no regard for the chemical compatibility of their contents. Bayonne Barrel and Drum does not test ground or surface water for chemical contamination. Bayonne Barrel and Drum has no program for controlling leaks or spills. The facility has made no provision to control movement of their waste inventory into the air, rivers, or groundwater. Some contamination enters surface and groundwater. These waters are not now used for drinking, sanitation or fishing.

pentachloro biphenyls (PCBs). Water samples from the separator tanks reveal considerable amounts of organic

contaminants.

We found no atmosphere greater than 3% of the lower explosive limit and site security is tight enough to minimize ignition sources. The drums may contain a flammable air vapor mixture. Some of the drums might also contain chemicals that degrade to form highly reactive, pyrophoric, shock-sensitive or autoreactive materials. The danger of fire and explosion at this site is minimal although a complete evaluation of fire and explosion hazards would require individual examination of each drum.

Table I

Comparison of Sample Analysis to Characteristic of EP Toxicity

					<u> </u>			
	Maximum Concentration for EP Toxicity	och pile 65184	65185	cah pite 65186	00il Manuela 65187	65191	65192	
arameter	mg/1	mg/l	mg/l	mg/1	mg/l	mg/l	mg/l	
rsenic	5.0	.02K	.02K	.02K	.02K	.02K	.02K	
arium	100.0	4.0	5.3	1.3	1.5	.16	1.7	
admian.c-	1.0	.99		.17	.08	.002K	.04	
hromium	5.0	.02J	.01J	.04	.008K	(02J	£083	
ead.	5.0		CE DE	2.4	.25	.04	.10	
ercury	0.2	.0002K	.0002K	.0002K	.001	.0002K	.0002K	
elenium	1.0	.008K	. 02J	.008K	.008K	.009J	.008K	
ilver	5.0	.002K	.002J	.002K	.002J	.002K	.002K	
Indrin	.02	.000008K	.000008K	.000008к	.000008K	.000008k	.8000001	
indane	.4	.00003	.00004	.00023	.00066	.00002	.000003	
choxychlor	10.0	.00038	.00008K	.00328	.01100	.00054	.00059	
2,4,-D	10.0	•0003K	.0003K	.0073	.0080	•0003к	.0003K	
Silvex	1.0	.00007K	.00007K	.00007K	.00007K	.00007K	.00007K	
Toxophene	0.5	.00035K	.00035K	.00035K	.00035K	•00035K	•00035	

K = Actual valve less than valve given

65184, 65185, 65186 - Ash Pile

65187 - Soil by Ash Pile

65191 - Subsurface Tank Near Incinerator

65192 - Soil by Subburface Tank Near Incinerator

J = Estimated valve

Results of Metals Analysis on Jamples

Parameter	ach 65184 mg/kg	65185 mg/kg	65186 mg/kg	65187 mg/kg	65192 mg/kg 4c0
Silver	3K	3J	3K	3K	3K
Arsenic	7.5	6.6	3J	23	7.0
Beryllium	1J	1K	1K	1K	1K
CEONILLINO'	160	120	84	59	13
Chronium	2900	1800	3300	650	1200
Copper	3300	2400	1100	1000	1100
discussion of the second	12	.5J	21	27	7.4
	21,000	13,000	17,000	4500	2700
dichel	250	250	79	99	850
Antimony	.8K	.8K	.8K	.8K	.8K
Selenium	.9J	5.1	.8K	4.2	2Ј
Thallium	.8K	.8K	.8K	.8K	.8K
AIRC-	3400	3800	3500	2300	1900

K = Actual valve less than valve given <math>J = Fstimated valve

65184, 65185, 65186 - Ash Pile

65187 - Soil by Ash Pile 65192 - Soil by Subsurface Tank Near Incinerator

		5000	22
Organic Compounds	oil with trent 65188 ug/1	65189 ug/1	tank 65191 ug/1
		90J	
	1800Ј		1300
Nerhtbalene,	1500Ј	1400	
Bis(2-ethylhexyl) phthalate	13,000	6900	
Butyl benzly phthalate		1100	
Di-n-butyl phthalate	3800J	1800	
Fluorene		705	
Phenanthrene	2500Ј	290	
Pyrene	:	60J	
Phesois			110J
Reducer			4900
•	·	1	}

J = Estimated valve

K = Actual valve less than valve given

65188 - Oil Separator 65189 - 5,000 Gallon Tank

65191 - Subsurface Tank by Incinerator

Table VI

Results for PCB Analysis

РСВ	کینا #65187
Aroclor 1248	67.2 mg/kg
Aroclor 1254	117.5 mg/kg

Ingles Imples

65187 - Composite soil sample by ash pile

Table Va Results of Organic Analysis on Samples

Sample Compounds 65184 65185 65186 65187 65190 4300J 2500J 1400J 2500J 2500J 240 240 240 2500J	·		·			. 0 :	
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		{	1		1:		1
Phenanthrene 12000 900 32000 17000 28000 7000	Phenanthrene	12000	900	32000	17000	28000	7000
	Pyrene	3600J	260	14000	15000	.1	4700J
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J = Estimated valve
K = Actual valve less than valve given

Table Vb Results of Organic Analysis on Samples

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J. Dichlemethane	320	67	500	16		
and the second second	1300		5000	660	· .	
index com	47	120	160	23		
l,l-dichloroethylene	68		400	13	•	
1,2-dichloropropane		18K				
Pt had become	3200	1900	65000	120	580	
test by lane. Chicride	10000	4600	8700	1500		
Tolvene	1800	1300	2600	460	100	
Luene	28000	11000	320000	630	1700	
Carolio de la	2200	1200	8100	290	19	
Variation to the control of the cont	1600		150			
<u> </u>				<u></u>		_ ·

J = Estimated valve

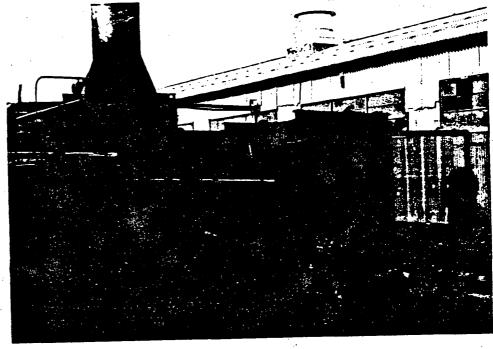
65184, 65185, 65186 - Ash pile

65187 - Soil by Ash Pile

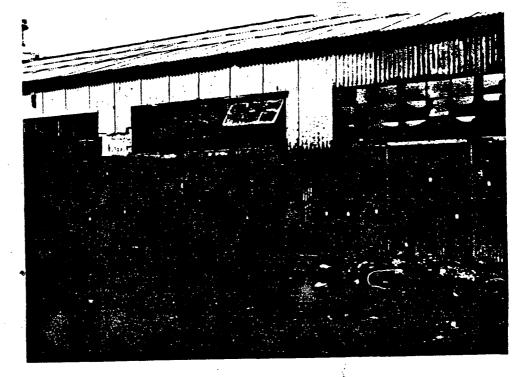
65190 - Soil by 5,000 Gallon Tank 65192 - Soil by Subsurface Tank Near Incinerator

K = Actual valve less than valve given

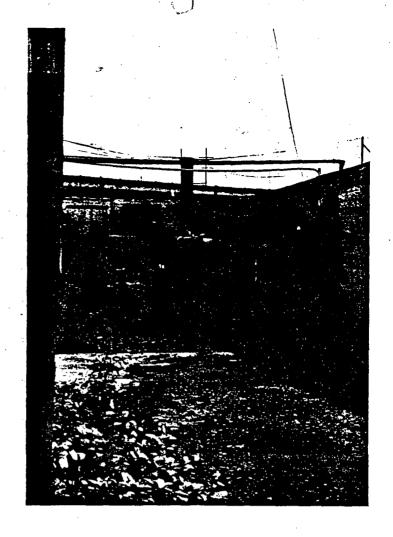
1. Open head drum incinerator note debris underneath



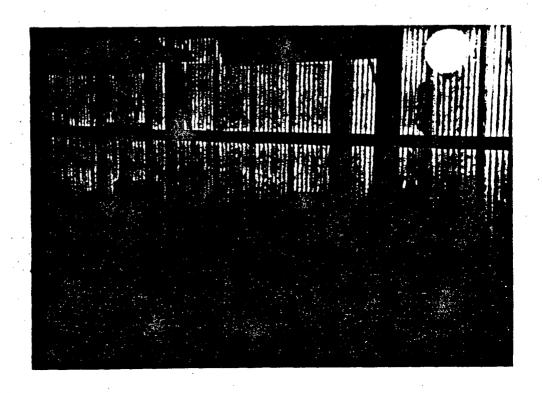
2. Incinerator conveyor with debris



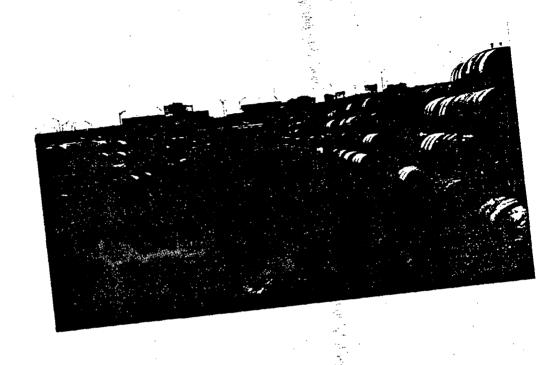
3. Incinerator alley



4. Location of "sump pit" where we measured 90 ppm



5. Drum storage in rows



6. More drum storage and northeast corner of ash pile.



7. Ash pile with drive-in sign in background



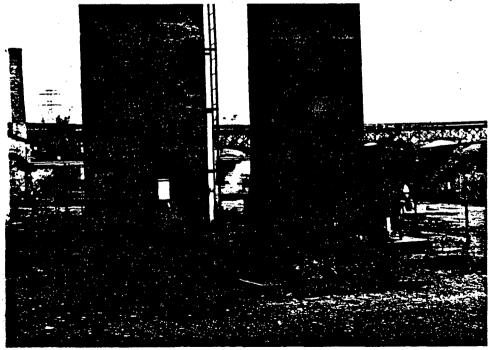
8. TAT members Moylan and Marlowe use OVA while NJDEP rep Sickels observes



9. Pool of water on top of the ash pile. Note lack of protective cover.



10. Waste burner and 60,000 gallon tank. Pulaski Skyway in background.



11. Disturbed earth near the northwest corner of the open head building.



AIR MONITORING DATA SHEE

ate: August 8, 1989 Site Identification: Bayer	ne Barrel
erson Sampling: Craig Maylon Qualified By: TAI	L EPA Other
Meteorological Conditions	
emperature: 86 P Wind Speed: 5-10 Dire	ction: NW-> SE
arometric Pressure: Pelative Humid	ity: <u>60%</u>
loud Cover - Type: Amount:	ell
recipitation - Type: None Amount:	•
Instrument Data	
PA Sticker Number: 190017 Calibration/Se	rvice Date: <u>fame</u>
erson Calibrating: Change Maylon Qualified By:	TATL X EPA_
alibration Data: field only	<u> </u>
NU: Type of Probe(s) 9.5, 10.2, 11.7 eV (Circle One)	
Date Lens Cleaned:	
A: Mode Used: Survey	
Type & Number of Column:	·
Type of Probe:	
Filters: Rarticulate	
aMotte Impinger: Specific Kit(s) Used:	
Flow Rate(s):	
etector Tubes: Type of Unit:(F	
Specific Tube(s):	•
Tube Lot Number:	-
Tube Expiration Date:	•
Number of Pump Strokes/Sample Volume:	
adiation Meter: Type of Radiation Monitored:	•
Meter: Suspected Contaminants:	
· · · · · · · · · · · · · · · · · · ·	<u> </u>

Data Sheet

Exact Location: Background	
Chemical Monitored: OVA	Amount Measured: 2ppm
Time Started: 9:40	Time Finished:
Exact Location: Open head beldg	drain ares
Chemical Monitored: OVA	Amount Measured:
Time Started:	Time Finished:
Exact Location: North end of Consum	un in the
Thereing Manihouse 1011	
Chemical Monitored: 0 UA	Amount Measured: Oppm
Fime Started:	Time Finished:
Exact Location: Paint in paint line	Oren head
Chemical Monitored: OVA	Amount Measured:
ime Started:	Time Finished:
Exact Location: Sumppit at Narthe	al al na intlino
Chemical Monitored: OVA	Amount Measured: 20 ppm
Time Started:	Time Finished:
Exact Location: Lunchrooms +	lockers rooms
40 / Å	Amount Measured:
Time Started:	Time Finished:
Exact Location: One at lease of dr	um in next stack
Chemical Monitored: DVA	Amount Measured: 20 ppm
Time Started:	Time Finished:

Data Sheet

exact Location: Inside a drum la	helled "TOI"
Themical Monitored: OVA	Amount Measured: 100 ppm
Time Started:	Time Finished:
Exact Location: Surface af Waste	pile Ash
Themical Monitored: BVA	Amount Measured:
Fime Started:	Time Finished:
Exact Location: Done from late	tom of Ash pile North
Themical Monitored:	Amount Measured: 10 ppm
Time Started:	Time Finished:
exact Location: O one from Ash	pile Sauth
hemical Monitored:	Amount Measured: 10 ppm
I'ime Started:	Time Finished:
exact Location: Roaf D Ambient	ais in SE quad
Themical Monitored: OVA	Amount Measured: 10 Ppm
Time Started: smelled swellt	Time Finished:
	S. End Open Head line
Chemical Monitored:	Amount Measured: 10 ppm
Fime Started:	Time Finished:
exact Location: Dil Wales Trench	Send (green)
hemical Monitored: OVA	Amount Measured:
Time Started:	Time Finished:
	•

Data Sheet

exact Location: Ou Water I run	d N.End (rust)
Themical Monitored: 0 VA	Amount Measured: 15 ppm
fime Started:	Time Finished:
xact Location:	
hemical Monitored:	Amount Measured:
fime Started:	Time Finished:
	•
Exact Location:	
hemical Monitored:	Amount Measured:
Fime Started:	Time Finished:
Exact Location:	
hemical Monitored:	Amount Measured:
Time Started:	Time Finished:
exact Location:	
hemical Monitored:	Amount Measured:
Time Started:	Time Finished:
Exact Location:	
hemical Monitored:	
Time Started:	
Exact Location:	
hemical Monitored:	Amount Measured:
Time Started:	Time Finished: